

WHAT IS CLAIMED IS:

1. A frame structure of a liquid crystal module, said frame structure being adapted for fixedly securing a flexible printed circuit board which is electrically connected to a liquid crystal display panel, said frame structure comprising:
  - a plurality of fasteners, each fastener including:
    - a first clip piece;
    - a second clip piece arranged around said first clip piece; and
    - a gap disposed between said first clip piece and said second clip piece.
2. The frame structure according to claim 1, wherein said frame is made of plastic.
3. The frame structure according to claim 1, wherein said frame is formed by integral injection molding.
4. A frame structure of a liquid crystal module, said frame structure being adapted for fixedly securing a control printed circuit board which is electrically connected to a flexible printed circuit board, said frame structure comprising:
  - a recess having a first edge, a second edge, a third edge and a fourth edge, said recess comprising:
    - a slot on said first edge of said recess, for receiving said control printed circuit board;
    - a plurality of protrusions on said second edge, said third edge and said fourth edge of said recess, for fixing said control printed circuit board in said recess; and
    - a plurality of resilient engaging pieces disposed at said third edge, which is opposite to said first edge, of said recess for engaging with said control printed circuit board.
5. The frame structure according to claim 4, wherein a gap is disposed between said resilient engaging piece and a body of said frame.
6. The frame structure according to claim 4, wherein said frame is made of plastic.
7. The frame structure according to claim 4, wherein said frame is formed by integral injection molding.

8. A frame structure of a liquid crystal module, said frame structure being adapted for fixedly securing a flexible printed circuit board which is electrically connected to a liquid crystal display panel, and for fixedly securing a control printed circuit board which is electrically connected to said flexible printed circuit board, said structure comprising:

a plurality of fasteners, each fastener including:

a first clip piece;

a second clip piece arranged around said first clip piece; and

a gap disposed between said first clip piece and said second clip piece;

and

a recess having a first edge, a second edge, a third edge and a fourth edge, said recess comprising:

a slot on said first edge of said recess, for receiving said control printed circuit board;

a plurality of protrusions on said second edge, said third edge and said fourth edge of said recess, for fixing said control printed circuit board in said recess; and

a plurality of resilient engaging pieces disposed at said third edge, which is opposite to said first edge, of said recess for engaging with said control printed circuit board.

9. The frame structure according to claim 8, wherein said frame is made of plastic.

10. The frame structure according to claim 8, wherein said frame is formed by integral injection molding.

11. A grounding structure of a liquid crystal module, said grounding structure being adapted for protecting a control printed circuit board of said liquid crystal module from electro-magnetic interference, said grounding structure comprising:

a frame for receiving said control printed circuit board;

a grounding conductive sheet, wherein one end of said grounding conductive sheet is electrically connected to said control printed circuit board, and the other end comprises a first engaging member; and

a metal bezel for locking around said frame, said metal bezel including a second engaging member, wherein said second engaging member engages with said first engaging member.

12. The grounding structure according to claim 11, wherein said second engaging member is made of metal.

13. The grounding structure according to claim 11, wherein said grounding conductive sheet is made of copper.

14. The grounding structure according to claim 11, wherein said first engaging member further comprises a resilient piece, and said second engaging member comprises a hook for engaging with said resilient piece.

15. The grounding structure according to claim 11, wherein said first engaging member comprises an opening, and said second engaging member comprises a hook for engaging with said opening.

16. A liquid crystal module, comprising:

a first frame;

a liquid crystal display panel consisting a liquid crystal layer between a pair of substrates;

a back light module disposed beneath said liquid crystal display panel for providing a planar light;

a second frame for supporting said back light module, said second frame assembling with said first frame to fixedly secure said liquid crystal display panel and said back light module;

a flexible printed circuit board, wherein one end of said flexible printed circuit board is electrically connected to one of said substrates, and the other end is bent to be secured at back of said second frame; and

a control printed circuit board, wherein one end of said control printed circuit board is electrically connected to said flexible printed circuit board,

wherein said second frame comprises:

a plurality of fasteners, each fastener including a first clip piece and a second clip piece opposite to said first clip piece, wherein a gap is disposed

between said first clip piece and said second clip piece for fixedly securing said flexible printed circuit board therebetween;

a recess disposed at said second frame for receiving said control printed circuit board;

a slot disposed at a periphery of said recess for engaging against one end of said control printed circuit board;

a plurality of protrusions disposed at said periphery of said recess for positioning said control printed circuit board; and

a plurality of resilient engaging pieces for fixing said control printed circuit board.

17. The liquid crystal module according to claim 16, wherein a covered area of said first clip piece is larger than a covered area of said second clip piece.

18. The liquid crystal module according to claim 16, wherein said second frame is made of plastic and is formed by integral injection molding.

19. The liquid crystal module according to claim 16, wherein said liquid crystal module further comprises a grounding conductive sheet for protecting said control printed circuit board from electro-magnetic interference.

20. The liquid crystal module according to claim 19, wherein said grounding conductive sheet is made of copper and is formed by integral injection molding.

21. The liquid crystal module according to claim 19, wherein said grounding conductive sheet comprises:

a first end electrically connected to said control printed circuit board; and

a second end comprising a first engaging member for engaging with said first frame.

22. The liquid crystal module according to claim 21, wherein said first end of said grounding conductive sheet is electrically connected to said control printed circuit board by welding.

23. The liquid crystal module according to claim 21, wherein said first engaging member is a resilient piece, and said first frame comprises a hook for engaging with said resilient piece.

24. The liquid crystal module according to claim 21, wherein said first engaging member is a hook, and said first frame comprises a slot for engaging with said hook.

25. The liquid crystal module according to claim 21, wherein said first end and second end of said grounding conductive sheet are substantially orthogonal with each other.